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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/753,043	12/27/2000	Sujata Kale	UMIC:048US	9653	
75	90 09/10/2002				
Steven L. Highlander Fulbright & Jaworski L.L.P., 600 Congress Avenue Suite 2400			EXAMINER		
			WITZ, JEAN C		
Austin, TX 78701			ART UNIT	PAPER NUMBER	
			1651	1651	
			DATE MAILED: 09/10/2002	DATE MAILED: 09/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>							
		Application No.	Applicant(s)				
Office Action Summary		09/753,043	KALE ET AL.				
		Examiner	Art Unit				
		Jean C. Witz	1651				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Extermatter - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing adaptant term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS froe, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. JED (35 U.S.C. § 133).				
1)🖂	Responsive to communication(s) filed on 17.	<u>June 2002</u> .					
2a)	This action is FINAL . 2b)⊠ Th	nis action is non-final.					
3) Dispositi							
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.							
4a) Of the above claim(s) <u>31-37</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30 and 38</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8)	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	cknowledgment is made of a claim for domesti						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 9	5) Notice of Information	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				
U.S. Patent and Tr PTO-326 (Re		ction Summary	Part of Paper No. 12				

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DETAILED ACTION

Election/Restrictions

Claims 31-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 11, filed June 17, 2002.

Claim Objections

Claims 1-30 and 38 are objected to because of the following informalities:

There appear to be minor spelling errors in the claims. Careful review and correction is requested.

Claim Rejections - 35 USC § 112

Claims 1-30 and 38 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for producing bone ex vivo, comprising the steps of a) obtaining osteogenic or bone precursor cells; b) culturing the cells immediately after passage under serum-free conditions in the presence of bone osteogenic growth factors which are members of the Transforming Growth Factor β gene superfamily and c) maintaining the cell cultures at cell densities that allow the formation of bone cell spheroids, does not reasonably provide enablement for the invention as presently claimed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

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Per the disclosure of Long et al., culture of osteogenic or bone precursor cells were cultured in the presence of TGFβ in serum free medium became adherent and apparently did not produce any bone cell spheroid growth. Clearly, it is the specific culture conditions of culturing the cells immediately after passage under serum-free conditions in the presence of bone osteogenic growth factors that lead to the bone cell spheroid development. With regard to the bone osteogenic growth factors, absent a further showing of predictability, it remains unpredictable that any of the multiple and diverse growth factors that may have a growth promoting effect in an accessory nature will be effective in the practice of the claimed invention. Therefore, the claims should be limited in scope commensurate with the showing of the specification.

Allowable Subject Matter

Claims 1-30 and 38 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, set forth in this Office action.

If claim 38 is found to be allowable, pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 35-37, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, would be subject to being rejoined. In accordance with the Official Gazette notice, *supra*, process claims 31-34, which require further consideration other than merely the limitations of the allowable product, will NOT been rejoined.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean C. Witz whose telephone number is (703) 308-3073. The examiner can normally be reached on 6:30 a.m. to 4:00 p.m. M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on (703) 308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Jean C. Witz Primary Examiner Art Unit 1651

September 9, 2002